

# Notice of Allowability

Application No.

10/037,499

Examiner

HOSUK SONG

Applicant(s)

CANDELORE ET AL.

Art Unit

2135

## -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 3/29/06.
2. ☒ The allowed claim(s) is/are 1-28,30-39 and 98-101.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.


Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

### Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date 20060607
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413),  
Paper No./Mail Date 20060607
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

  
**HOSUK SONG**  
PRIMARY EXAMINER

### **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Miller on 6/7/06.

Replace the following claims as follows:

1. A method of producing an encrypted television signal, comprising:  
receiving a plurality of encrypted samples of the television program, the samples being encrypted under a first encryption method;  
receiving a duplicate of the plurality of encrypted samples of the television program, the duplicate of the plurality of encrypted samples being encrypted under a second encryption method; and  
combining the plurality of encrypted samples and the duplicate of the plurality of encrypted samples with an unencrypted portion to produce the encrypted television signal as an output.
2. The method according to claim 1,  
wherein the television signal is a digital television signal, and wherein the encrypted samples and the duplicate encrypted samples comprise encrypted packets, and the unencrypted portion comprises unencrypted packets.
3. The method according to claim 2,  
wherein the digital television signal complies with an MPEG standard, and wherein the encrypted packets are identified by a first and a second packet identifier, wherein the first packet identifier identifies the packets containing the encrypted samples and wherein the second packet identifier identifies the packets containing the duplicate encrypted samples.
4. The method according to claim 2,

wherein the digital television signal complies with an MPEG standard, and wherein the unencrypted packets are identified by a first packet identifier, and wherein the encrypted packets containing the first encrypted samples are identified by the first packet identifier, and wherein the packets containing the duplicate encrypted samples are identified by a second packet identifier.

5. The method according to claim 2,

wherein the digital television signal complies with an MPEG standard, and wherein the unencrypted packets are identified by a first packet identifier, and wherein the encrypted packets containing the first encrypted samples are identified by a second packet identifier, and wherein the encrypted packets containing the duplicate encrypted samples are identified by a third packet identifier.

6. A method of producing a multiple encrypted television signal,  
comprising:

receiving a plurality of unencrypted packets;

receiving a plurality of multiple encrypted packets, wherein the multiple encrypted packets comprise first encrypted packets encrypted under a first encryption method and second encrypted packets are encrypted under a second encryption method, and wherein both the unencrypted and at least one of the first and second encrypted packets are required to decode the television signal; and

combining the plurality of unencrypted packets with the plurality of multiple encrypted packets to produce the multiple encrypted television signal as an output.

7. The method according to claim 6, wherein the unencrypted packets and multiple encrypted packets comprise transport stream packets.

8. The method according to claim 6, wherein the television signal complies with an MPEG standard, and wherein the encrypted and unencrypted packets are identified by a packet identifier.

9. The method according to claim 6, wherein the digital television complies with an MPEG standard, and wherein the unencrypted packets and the first encrypted packets are identified by a primary

Art Unit: 2135

packet identifier, and wherein the second encrypted packets are identified by a secondary packet identifier.

29. (Cancelled).

30. A method of encrypting digital audio and video content, comprising:

encrypting the digital audio and video content according to a first encryption method and a second encryption method to produce a first encrypted digital audio and video content portion and a second encrypted digital audio and video portion, respectively; and

combining the first encrypted digital audio and video content portion and the second encrypted digital audio and video content portion with an unencrypted digital audio and video content portion to produce an output signal of multiple partially encrypted digital audio and video content.

33. A method of managing multiple access control systems with an audio visual content distribution system, comprising:

identifying a portion of the content to replicate for each of a plurality of access control systems according to a selection algorithm wherein less than 100% of the content is replicated and wherein the portion that is not identified for replication is an unencrypted portion; and

replicating the identified portion twice to create a first replicated identified portion and a second replicated identified portion; and

providing an output signal comprising the first replicated portion and the second replicated portion.

**Claims 40-97 are cancelled.**

98. An apparatus for generating a multiple encrypted packetized digital television signal, comprising:  
means for receiving a first plurality of unencrypted packets;

Art Unit: 2135

a first encryptor for encryption of a second plurality of packets encrypted under a first encryption method;

a second encryptor for encryption of a third plurality packets encrypted under a second encryption method; and

wherein the packets encrypted under the first and second encryption methods are duplicate packets, and wherein the packets are selected for encryption using a selection criterion; and

a multiplexer that combines the first, second and third plurality of packets into a transport data stream as an output thereof.

99. The apparatus for generating the multiple encrypted packetized digital television signal according to claim 98, wherein the digital television signal comprises an MPEG compliant digital television signal.

100. The apparatus for generating the multiple encrypted packetized digital television signal according to claim 99, wherein the first plurality of unencrypted packets and the second plurality of encrypted packets are identified by a first packet identifier.

101. The apparatus for generating the multiple encrypted packetized digital television signal according to claim 100, wherein the second plurality of encrypted packets are identified by a second packet identifier.


#### ***USPTO Contact Information***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to H. SONG whose telephone number is 5712723857. The examiner can normally be reached on mon-fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, KIM VU can be reached on 5712723859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2135

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

  
HOSUK SONG  
PRIMARY EXAMINER